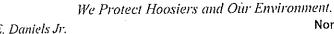
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



Mitchell E. Daniels Jr. Governor

Thomas W. Easterly
Commissioner

March 4, 2011

Northwest Regional Office 8380 Louisiana Street Merrillville, Indiana 46410 (219) 757-0265 Toll Free (888) 209-8892 Fax (219) 757-0267 www.idem.IN.gov

VIA CERTIFIED MAIL 7190 0005 2710 0011 9667

Mr. Robert H. Lange U. S. Steel, Gary Works 1 North Broadway Gary, IN 46402

Dear Mr. Lange:

RE: Referral to USEPA, Region 5

U.S. Steel, Gary Works Plant ID Number: 089-00121

Gary, Lake County

The Indiana Department of Environmental Management (IDEM) has received and reviewed the fourth quarter deviation and compliance monitoring report for 2010, submitted by United States Steel Corporation – Gary Works. This report identified the following deviations:

- 1. Permit Conditions D.2.4 and D.2.5: On October 22, 2010, the Permittee exceeded the allowable limit of having visible emissions from no more than five percent (5%) of the total off take piping on No. 2 coke oven battery.
- 2. Permit Conditions D.8.1 and D.8.15: On December 11, 2010, the Permittee failed to operate the south gas cleaning system at the No.1 Basic Oxygen Furnace according to a written operation and maintenance plan.

In addition to the above, US Steel – Gary Works submitted a Emergency Occurrence Report for a deviation which occurred on November 24, 2010. The allowable limit of twenty percent (20%) in any one six minute averaging period on No.2, No.5, and No.7 coke oven batteries was exceeded. This event was determined to qualify as an emergency.

U. S. Steel, Gary Works 1 North Broadway Page 2

These matters have been referred to USEPA, Region 5 for appropriate action. Please direct any response to this letter and any questions to Dave Sampias at (219) 757-0291.

Sincerely,

J. Robert Simmons

Deputy Director

Northwest Regional Office

JRS/dcs

ACES No. 126761

cc: File

US Steel-Gary Works Gary, Indiana Permit Reviewer: Gall McGarrity

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: U.S. Steel - Gary Works

Source Address: One North Broadway, Gary, Indiana 46402 Mailing Address: One North Broadway, Gary, Indiana 46402

Part 70 Permit No.: T089-7663-00121

Phone:

Months: October 1 to December 31 Year: 2010

Page 1 of

		rage 101								
This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".										
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.										
☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.										
Permit Requirement (specify permit condition #): D.8.15, 40 CFR Subpart FFFFF 63.7800(b)										
Date of Deviation: 12/11/10		Duration of Devlation: N/A								
Number of Deviations: 6										
Probable Cause of Deviation: Low damper differential pressure of south venturi scrubber. During this time 6 heats were processed on the South Gas Cleaning system.										
Response Steps Taken: Venturi will be repaired with new cylinders and mechanical alignment										
Form Completed By:	Jon P. Michael									
Title/Position:	Division Manager, Steel Producing South									
Date:	January 26, 2011									

Attach a signed certification to complete this report.

219.888.4803

NWRD



United States Steel Corporation Gary Works One North Broadway Gary, IN 46402-3199

16100 -180

January 26, 2011

Certified Mail Return Receipt Requested

Dave Cline
Indiana Department of Environmental Management
Office of Air Quality
Mail Code 61-50
100 North Senate Avenue
Indianapolis, IN 46204-2251

RECEIVED State of Indiana

Department of Environmental Managemen

Subject:

Revised Fourth (4th) Quarter 2010 Quarterly Deviation and Compliance Report for

Steel Producing South

Operation Permit No. T089-7663-00121

U.S. Steel - Gary Works

Dear Mr. Cline:

As required, the following report is enclosed and covers the reporting period of October 1, 2010 through December 31, 2010. Please replace the subject report with the one previously sent.

Quarterly Deviation and Compliance Monitoring Report for Steel Producing South

If there are any questions concerning the enclosed, please contact me at 219.888.3387.

Sincerely,

Jim Alexander

Manager, Environmental Air Compliance

cc:

Dave Sampias (w/o diskette data) IDEM/NWRO 8315 Virginia St, Suite 1 Merrillville, Indiana 46410

Rodney Sommerville (w/o diskette data) Environmental Affairs Department 839 Broadway, 2nd Floor NE Gary, Indiana 46402



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr. Governor

Thomas W. Easterly Commissioner January 13, 2011

Northwest Fieglonal Office 8380 Louislana Street Merrillville, Indiana 46410 (219) 767-0266 Toll Free (888) 209-8892 Fax (219) 757-0267 www.ldem.in.gov

<u>VIA CERTIFIED MAIL</u> 91 7190 0005 2710 0010 9002

Robert H. Lange U. S. Steel, Gary Works 1 North Broadway Gary, IN 46402

Re: Emergency Occurrence
U.S. Steel, Gary Works
Plant ID Number: 089-00121
Gary, Lake County

Dear Mr. Lange:

The Indiana Department of Environmental Management (IDEM) received your Emergency Occurrence Report dated November 24, 2010. This report documents a deviation of permit condition C.1 (a) and (b) in permit T089-7663-00121.

The IDEM concurs that this event qualifies as an emergency as defined in 326 IAC 2-7-1(12) and at this time will not pursue legal action.

If you have any questions concerning this letter, please contact Mr. Dave Samplas at 219/757-0291.

Sincerely,

J. Robert Simmons
Deputy Director

Northwest Regional Office

JRS/ds

cc: Dave Sampias, NWRO.

U.S. Steel - Gary Works Gary, Indiana Permit Reviewer: Gall McGarrity

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE AND ENFORCEMENT BRANCH

100 North Senate Avenue MC.61-53 IGCN 1003

Indianapolis, Indiana 46204-2251 Phone: 317-233-0178

Fax: 317-233-6865

EMERGENCY OCCURRENCE REPORT

Source Name:

U.S. Steel - Gary Works

Source Address:

One North Broadway, Gary, IN 46402 One North Broadway, Gary, IN 46402

Mailing Address: Part 70 Permit No.:

T089-7663-00121

This form consists of 2 pages

Page 1 of 2

This is an emergency as defined in 326 IAC 2-7-1(12)

The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Gary Works Coking Operations/Coke Oven Batteries No. 2, 5, 7.

Control Equipment: none

Permit Condition or Operation Limitation in Permit: c.1(a) Operation between a average of twenty percent (2014) in any one (1) six (6) minute averaging period as determined in 225 IAC 5-1-4.

C.1(b) Operity shall not exceed sixty percent (6014) for more than a cumulative total of lifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifticen (15) minute nonoverlapping integrated averages for a continuous operity monker) in a six (8) hour period.

Description of the Emergency:

Loss of control suction to coke oven batteries

Describe the cause of the Emergency:

Catastrophic failure of rotating equipment on operating coke oven gas booster that resulted in a loss of suction to the coke oven batteries.

Significant Permit Modification No. 089-27690-00121 Modified by: Jenny Acker

U.S. Steel - Gary Works Gary, Indiana Permit Reviewer: Gail McGarrity

f any of the following are not applicable, mark N/A	Page 2 of 2
Date/Time Emergency started: November 24, 2010 at 11:48 am	
Date/Time Emergency was corrected: November 24, 2010 at 5:00 pm	
Was the facility being properly operated at the time of the emergency? (Y) N Describe:	
Type of Pollutants Emitted: TSP (PM-10) SO ₂ , VOC, NO _X , CO, Pb, other: Opacity	
Estimated amount of pollutant(s) emitted during emergency: No 2 COB - one (1) 20% - six (6) minute average exceedances No 5 COB - forty one (41) 20% - six (6) min average exceedances No 7 COB - ten (10) 20% - six (6) min average and one (1) 60% for 15 minutes exceedances	
Describe the steps taken to miligate the problem: No.5 Booster was online and experienced a catastrophic failure and battery suction was lost. All battery production (pushing and charging) was halted. No.4 Booster was put into service and normal battery operations were restored.	
Describe the corrective actions/response steps taken: see above	
Describe the measures taken to minimize emissions: All battery production activities was halted until battery suction was returned to normal.	
If applicable, describe the reasons why continued operation of the facilities are necessal imminent injury to persons, severe damage to equipment, substantial loss of capital involved or raw materials of substantial economic value: N/A - see above	ary to prevent vestment, or loss
Form Completed by: Jim Alexander	

A certification is not required for this report.

11/24/2010

219.888.3387

Title / Position:

Date:

Phone:

Air Compliance Manager



INSPECTION SUMMARY INSPECTOR Such

	DATE	10 -22-10 INSPECTOR	Quallo .	shift 5					
	PLAN	T: CITIZENS GAS (Indianapolis)	MITTAL (Burns Harbor)	US STEEL (Gary)					
	. 1	BATTERY NO.: 1 2	5 7 E	н					
Inspectio	n Times	Inspection	Data	Percent Leakage Calculations					
Start	Finish			No. Door Leaks					
		# Ovens Out of Service =	PS Doors Leaking = Ø	No. Doors Observed					
74	_	# Doors Not Observed =	CS Doors Leaking = 4	3,85 % Leakage					
754	800		1.	Door Inspection Limit% for 30 day rolling average					
		Total # Doors Obs. = 109	Total Leaking Doors =	PRELIM. COMPLIANCE STATUS:INOUT					
		Total # Collector Main Leaks Observed =							
		# O Out of Coming	Total Leaking Lids = **	No. Lid Leaks x 100 = Percent Leakage					
		# Ovens Out of Service =	Total Leaking Lids =	No. Lids Observed					
		# Lids Not Observed = 34		% Leakage					
aśn	955	# Lids Observed = 18~		Lid Inspection Limit% for 30 day rolling average					
		# Lios Observed - 19 1		PRELIM. COMPLIANCE STATUS: IN OUT					
		# Ovens Out of Service =	Total Leaking Offtakes = 6	No. Offtake Leaks No. Offtakes Observed x 100 = Percent Leakage					
		# Offtakes Not Observed = \>		<u>€.53</u> % Leakage					
				Offtake Inspection Limit% for 30 day rolling average					
955	958	# Offtakes Observed = <u> </u>		PRELIM. COMPLIANCE STATUS: IN OUT					
		Seconds Per Charge / Oven No.	Total Seconds for 51.5	Charging Inspection					
		1.9,5 / 22	Five Charges =	Limit = 60 Second for five charges					
		29,0 / 24		(Log for 30 day rolling average)					
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		4. 11.5 / 28							
		5. <u>iv.s</u> / <u>32</u>		PRELIM. COMPLIANCE STATUS: IN OUT					



TOPSIDE INSPECTION (LIDS & OFFTAKES)

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